

## INTERNATIONAL SEARCH REPORT

Application No

PCT/US2005/001338

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 606F19/00 G01N33/68  
 //C12N9/40

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C12N G01N G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MURALI RAMACHANDRAN ET AL: "Crystallization and Preliminary X-ray Analysis of Human alpha-Galactosidase A Complex" JOURNAL OF MOLECULAR BIOLOGY, vol. 239, no. 4, 1994, pages 578-580, XP002329000 ISSN: 0022-2836 cited in the application the whole document -/-	6,7

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

24 May 2005

Date of mailing of the international search report

08/06/2005

## Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel: (+31-70) 340-2040, Tx: 31 651 epo nl,  
 Fax: (+31-70) 340-3016

## Authorized officer

Van der Schaaf, C

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GARMAN SCOTT C ET AL: "The 1.9 ANG structure of alpha-N-acetylgalactosaminidase: Molecular basis of glycosidase deficiency diseases" STRUCTURE (CAMBRIDGE), vol. 10, no. 3, March 2002 (2002-03), pages 425-434, XP002328999 ISSN: 0969-2126 cited in the application page 430, right-hand column; figure 6	6,7
X	YASUDA MAKIKO ET AL: "Fabry disease: characterization of alpha-galactosidase A double mutations and the D313Y plasma enzyme pseudodeficiency allele." HUMAN MUTATION. DEC 2003, vol. 22, no. 6, December 2003 (2003-12), pages 486-492, XP002329167 ISSN: 1098-1004 page 491, left-hand column; figure 4	6,7
A	KUNTZ I D ET AL: "STRUCTURE-BASED MOLECULAR DESIGN" ACCOUNTS OF CHEMICAL RESEARCH, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 27, no. 5, May 1994 (1994-05), pages 117-123, XP000885741 ISSN: 0001-4842 the whole document	
A	KLEBE G: "Recent developments in structure-based drug design." JOURNAL OF MOLECULAR MEDICINE (BERLIN, GERMANY) 2000, vol. 78, no. 5, 2000, pages 269-281, XP002329168 ISSN: 0946-2716	
A	JANCARIK J ET AL: "SPARSE MATRIX SAMPLING: A SCREENING METHOD FOR CRYSTALLIZATION OF PROTEINS" JOURNAL OF APPLIED CRYSTALLOGRAPHY, COPENHAGEN, DK, vol. 24, 1991, pages 409-411, XP001053042 ISSN: 0021-8898	
P, X	GARMAN SCOTT C ET AL: "The molecular defect leading to Fabry disease: structure of human alpha-galactosidase." JOURNAL OF MOLECULAR BIOLOGY. 19 MAR 2004, vol. 337, no. 2, 19 March 2004 (2004-03-19), pages 319-335, XP004493187 ISSN: 0022-2836 the whole document	6,7

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2005/001338

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 1–5  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(v) PCT – Presentation of information  
Rule 39.1(1) PCT – Mathematical method
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.